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ABSTRACT

An apparatus and device for fusing two or more foam components together by thermal welding, ~~has the apparatus and device comprising~~ an interface blade adapted for placement at an interface of foam components to be fused together, and a nozzle proximate to the interface blade for distributing a heated gas at the interface of the foam components. The nozzle may be located in a shroud proximate to the interface blade. An automated foam welding apparatus has a platform for supporting foam components or other components, a clamp for applying pressure to one or more of the foam components, and one or more welding heads mounted upon a track for translation proximate to the foam components to be welded together, the welding heads having an interface blade and a heated gas distribution nozzle, and optionally a trimmer for trimming excess material from one or more of the foam components. A hand-held foam welding device is also described.